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Lebowitz, M.D., Holberg, C.J., Boyer, B., Hayes, C. "Respiratory Symptoms and Peak Flow Associated with Indoor and Outdoor Air Pollutants in the Southwest" <u>Journal of the Air Pollution Control Association</u> 35(11): 1154-1158, 1985.

A symptom-stratified, geographic cluster sample of 117 middle class households was studied. Symptom daily diaries and peak flows were obtained for 211 subjects over a two-year period. Indoor sampling in a sample of houses was performed for 03, TSP, RSP, CO, temperature (T), and relative humidity (RH). Questionnaires determined type of stove and number of smokers in Ambient pollutants (03, TSP, CO, NO2), were all households. nomitored in or near the clusters, as were T and RH. Smoking in the household was signficantly correlated with TSP and RSP. Indoor CO was significantly correlated with gas stove usage. Normal young adults under age 25 had daily peak flows (PEF) associated with outdoor O3 after adjusting for other factors). Asthmatics! PEF was associated with smoking, gas stove use and outdoor NO2, and with outdoor 03 and temperature, after controlling for other factors. Indoor and outdoor factors affected asthmatic symptoms, after controlling for age, sex, smoking and other ambient environmental variables.